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291 (women never wear the low-cut type) complete the costume. These moccasins often have the upturned toe.

302 Young women, and many middle-aged women too, part the hair, draw it together at the back, wrap it up in a knot at the nape, tie it, and cover it with an hour-glass-shaped hide form. Older women tend to wear their hair hanging loosely; "but, if it is in their way, they fix it up too." As a woman advances in age, she devotes less attention to hair-grooming, though there is great individual variation in the time at which these changes take place. Though some rather young women have the hair loose, a really old woman is never seen wearing the hair form.

Face-painting of women follows the conventions noted for men. Women tattoo also. In addition to tattoo markings on the 304 [531] [178] arms, they place a dot on either cheek and often a figure, such as a circle or a wavy or serrated line, on the forehead. One informant insisted that the facial tattooing of the women is an innovation.

301 789 Women, like men, make lavish use of pendants and ornaments of stone, shell, and other materials; and many of these objects, too, are really amulets.

291 855 [857] [515] Very young children, particularly when the weather is mild, are burdened with little or no clothing. They play around the camps happy and unkempt. "It seems as though washing their hands and washing themselves is foreign to them." When clothes are made for them, the garments are modeled after those worn by adults. Sometimes a child's hair is gathered at the sides and 302 855 "tied in two bundles." But most often, until the girl assumes the hair form and the boy the headband, the hair is left to hang 824 175 loosely. For protection from the sun, both young people and adults wear wreaths of fresh willow.

342 [462] [824] [412] [283] The home in which the family lives is made by the women and is ordinarily a circular, dome-shaped brush dwelling, with the floor at ground level. It is seven feet high at the center and approximately eight feet in diameter. To build it, long fresh poles of oak or willow are driven into the ground or placed in holes made with a digging-stick. These poles, which form the framework, are arranged at one-foot intervals and are bound together

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at the top with yucca-leaf strands. Over them a thatching of bundles of big bluestem grass or bear grass is tied, shingle style, with yucca strings. A smoke hole opens above a central fireplace. A hide, suspended at the entrance, is fixed on a cross-beam so that it may be swung forward or backward. The doorway may face in any direction. For waterproofing, pieces of hide are thrown over the outer thatching, and in rainy weather, if a fire is not needed, even the smoke hole is covered. In warm, dry weather much of the outer roofing is stripped off. It takes approximately three days to erect a sturdy dwelling of this type. These houses are "warm and comfortable, even though there is a big snow."

The interior is lined with brush and grass beds over which robes are spread. Household equipment is utilitarian and minimal. Basketry receptacles include coiled shallow trays, large twined burden baskets for gathering wild foods, and pitch-covered woven water containers. There may be a few clay pots, unpainted and only occasionally incised. There are gourd cups and hide, gourd, and wooden dishes. Surplus food and clothing are stored in undecorated, envelope-like hide receptacles (parfleches). Ready for use are a metate and a cigar-shaped mano (as often as not of ancient Pueblo manufacture), stone and bone pounders, an awl, rawhide or horsetail hair ropes and tumplines, a fire drill, and combs made of dried and folded grass or mescal leaf.

In or around the camp are objects connected with horsemanship—saddles, bridles, bits, quirts, and saddlebags. Conspicuous, too, are weapons of war and chase—the bow and arrows, quiver, bow cover, shield, wrist guard, spear, sling, flint knives, and clubs.

Ceremonial objects—the pottery drum, a deer- or elk-hoof rattle, buckskin bags of pollen and other sacred substances, and the particular paraphernalia attached to the rites of the individuals of the household—are present but are less likely to be displayed.

The dwelling may contain a musical instrument or two not

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is cut into convenient sections. One man tells of his care to keep the meat of the right side separate from that of the left side until the butchering is concluded, but this seems to be personal with him. 224

If a hunter is on foot and far from his camp, it is likely that he will be able to take only part of the kill back with him:

If you are on foot and can't take it with you, you put the meat in a heap, place the hide over it, and say to the animals, "This belongs to Yusn; leave it alone." Then you hang it up in a tree by means of strongly spliced yucca strings. You hang it high enough so that animals cannot reach it. Then you put what you are going to take home in the hide. After reaching home, you go right back after the rest and bring it in. [283]

Another man mentioned a similar procedure, though he invokes a different supernatural:

You put part of the kill in a tree if you can't carry it all at once. It is tied there with strings made from the yucca leaf. There is a little prayer that is used at this time. You say, "This belongs to Hedos."[1] He was the "first man," sort of a religious man. He did this every time he made a kill. Now the Chiricahua do it. [283] [782] [776]

Crow is remembered with an offering. "Then I take the entrails out, put them to one side, and say, 'This is for you, Crow; make me lucky, and we'll have this kind of food all the time. I leave this for you every time.' " [825] [782] [776]

Certain parts of the deer must have special care if good fortune in the hunt is to be maintained: 224 825 777

As a general rule you must take the head home. Somebody might give you bad luck with it if you leave it there. You can do anything you want with it when you get it home, hang it up or anything. You must take the hoofs too. You can do what you want with them when you get them home too. Everybody is directed to do this.

A particular act also attends the bringing-back of the horns of a buck. "They take a slit of the entrails of a buck and tie it on the right horn. I was with M. hunting. He killed a deer and did this. I asked him why, and he said, 'For luck.' "

[1] This is the same supernatural character whose name was given before as Herus (see p. 198). The name is very unstable and has been recorded as Hados and Eyos as well.

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[283]
[281]

Men can carry wood, but they think it is woman's work. The women make their own rope out of hide, a special rope. It is about five yards long and of hard rawhide. They soften it with brains just enough so they can tie it. The women use this rope for getting wood.

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When a woman is going to get some wood, she doesn't carry great logs. She gets thin pieces of brush and sticks about three feet long and makes them into a bundle about a foot and a half thick. She ties the bundle at either end with this rope, leaving a rather long loop between. She puts the wood in a bundle on her back, and the rope comes over her shoulders and across her chest, or else just across her forehead.

A man could use this rope if he wanted to—to hobble horses for instance. But the rope is put where the woman can get it any time to carry wood. The man uses it only if he needs a rope in a hurry.

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[415]

The woman must keep on hand a plentiful supply of water for drinking, cooking, and washing. She brings it from a near-by spring or stream in a pitch-covered basketry jar.

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[462]
[1793]

Tanning and the use of hides.—"Tanning the hide is always considered woman's work. Men never do it." In the mythology, when Woodpecker wishes to deceive Coyote and make him think he is a girl, he scrapes a hide after the fashion of women. Yet certain realistic concessions are made. "Sometimes a man helps if it is a hard job, a big hide; he helps stretch it because it takes great strength."

The fresh pelt is treated in this manner:

[412]
[1798]

First the woman who is doing the tanning scrapes off the flesh with a sharpened deer bone or a sharp-edged stone. (At present she uses a scraper with a toothed metal blade.) Then she soaks the hide in water for two or three days—not too long or it will spoil. To soak the skin, she uses a basin formed of some stiff hide. Then she takes the skin out of the water and wraps it around a pole. She leans this pole against a tree so that the hide will not pull away. Then she scrapes downward with a sharpened horse rib and takes the hair off. She uses a rib near the neck because it is wider there.

When all the hair has been removed, she puts some grass on the ground and lays the skin on top of this grass with the inner side facing upward. She pegs it out here in the sun to dry for two or three days. If it is lumpy or too thick in places, she works it over with a rough stone to even it up and to soften it at those places.

The process of transforming the scraped hide into buckskin has been thus described:

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281 462 skin, the man cuts out the pieces to be used, and the woman sews them together.

281 386 The women color buckskin with a number of dyes of their own making. Dark brown is obtained from the juice of fresh walnut hulls, crushed and pressed. The buckskin is soaked in a mixture of the walnut-hull juice and water and is then re-worked to softness. Red is secured from the boiled root and bark of mountain mahogany. When this dye is lukewarm or cool, the buckskin is put in it and is left overnight or for a day; later it must be reworked with a stone until it is pliable. A yellow decoction is made by soaking algerita roots. The buckskin is left in the dye until it is yellow and is afterward pounded and softened. Yellow ocher is sometimes applied to the entire surface of a buckskin; as the color wears away, more ocher must be rubbed on.

294 237 283 Sewing is essentially the concern of the women, though men on the raid will do repair work. For thread, the woman needs sinew. Therefore the hunter, when he butchers an animal, always removes the sinew from the loin very carefully and presents it to his wife. Sinew from any large game animal is acceptable, though that from the deer is considered best. In recent times [178] sinew from the horse and the steer have come to be widely used. [412] With an awl made from the sharpened leg bone of the deer, the woman punches a hole in the skin she is sewing, moistens the end of the sinew, and runs it through the hole.

285 [462] *Basketry.*—Basket-making is one of the many tasks for which the woman supplies both the materials and the labor, and she possesses a large fund of knowledge concerning substances and [824] techniques. She rarely uses cottonwood, since it breaks too easily. She does not use willow unless no other materials are available. She knows that, if she gathers stems in the spring, she will have to let them dry for some days but that, if she takes them in the winter, they are dry enough to use almost at once.

285 824 The woman makes a coiled tray basket with sumac stems for the foundation and yucca leaves for the sewing material and designs it with yucca of various colors:

To turn the yucca yellow, put dry grass among the leaves in the yucca plant while it is standing in the ground; then set fire to the grass. The fire and smoke

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After the craftsman has cut a branch, split it, and shaped and smoothed the wood, he lets it season. When it is dried to his liking, he "greases the wood and pulls it in every way until it is slick and shiny." The wood is bent over the knee or over a tree and tied. Then it is put in hot ashes and watched so that it will not burn. After it cools it keeps its shape. The bow wood is kept tied and allowed to dry for over ten days after this treatment with heat. When the double-curved bow is made, the heated bow wood is bent between two young trees growing close together. 411 322

The outer surface is usually painted a solid color; on the inner surface the maker puts a design by which his handiwork is known —a star, a cross, serrated lines, parallel lines, or a naturalistic figure. This may refer to his supernatural power or may be simply a decoration or an identification mark. The dyes used are vegetable or mineral substances made permanent by mixture with juice squeezed from heated yucca leaves. Though the bow is never backed longitudinally with lengths of sinew, it is often wrapped with sinew. Usually, however, this is not applied until the bow has been weakened by use. Horse hair is used, but less frequently, as the reinforcing agent. 411 [531] [386] 411 237

When the bow is to be sinew wrapped, animal hooves and horns are boiled for two days, and the glue thus obtained is rubbed on the wood at the places where the sinew will cover it. Then the moistened sinew is wound around the bow, usually at the middle and at places on each side equidistant from the center. Glue is rubbed on the outer surface of the wrapping too, and the bow is left to dry. Occasionally, piñon pitch is substituted for glue. "The pitch is put on the sinew warm, and the bow is worked and bent back and forth to spread the pitch and work it in." [381] [314]

Sinew from the loin or the leg of the deer is saved for the bow string. The man soaks the sinew in water, separates it into strands, and rolls three of them together on his leg to form a string. The warrior or raider will have an extra string with him in case the one on his bow should snap. One informant claimed that the tough fiber from the mescal leaf, rolled on the thigh and [283] 411 824 283

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carefully tied, makes a bow string that serves well in emergencies and is even regularly used by some.

To release the arrow, the archer holds the string between his thumb and first finger and assists with his second finger. When the bow is not in use, it is left unstrung. In the hands of a strong man this weapon is quite effective.

> [My uncle] made powerful bows. At one hundred yards he could kill a deer instantly. At fifteen yards he could send an arrow through a deer.
>
> A good shot would be one that would send the arrow about a hundred yards with accuracy. The bow worked as fast as the gun in the old days. Formerly, before someone could load the magazine of a gun, you could shoot three arrows from the bow.

For hunting birds and killing pack rats, men fashion smaller bows of the same general construction. Boys who are learning how to use weapons are given these smaller bows.

In any important undertaking a man carries from thirty to forty arrows, and he likes to keep a reserve supply at home. Much time and care, therefore, go into their making and repair. An entire month may be spent on a full set of arrows. The arrows are of two kinds: those of carrizo or reed into which a hardwood foreshaft is fitted and those with the entire shaft of hardwood. For the latter, Apache plume, mulberry, mountain mahogany, or *Fendlera rupicola* is chosen.

When the man gathers arrow wood, he cuts it into appropriate lengths, peels off the bark, scrapes it, and allows it to dry from three to five days. The shaft is straightened between the teeth or is pressed against a heated rock and then is decorated with bands or stripes of black, blue, or red paint. On the upper portion of the shaft, at about the middle of the area which will be covered by the feathers, a narrow band of green or red is often traced.

Tail or wing feathers of the red-tailed hawk, the eagle, the buzzard, or the turkey are next affixed to the butt of the shaft. Turkey feathers, however, "can't stand rough treatment and are used mostly for the arrows used in practice or for boys' arrows." Each feather is split in half and trimmed, and the white substance is scraped from the quill. Three feathers are used, five- or six-inch lengths being arranged equidistant from each other and

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Pitch has been applied to the inner surface of the split, and the stone is held in place by sinew bindings on either side of it. Often an animal tail is attached to the end of the handle. An ax of this type, without the tail or any decoration, may serve around camp as a household tool.

The man makes for his own use a sling, a diamond-shaped piece of rawhide, pounded a little and thus softened, with four perforations through the median line of its width. A rawhide string is attached to each side, one with a loop at the end and the other without any. Because of the perforations, the sling can be folded over a stone about two and a half inches long and one inch thick. The loop is placed on the middle finger of the right hand, and the free string is held between the thumb and first finger. The sling is drawn back and whirled just once. As it comes forward the unlooped string is released, hurling the stone.

There are slings of two sizes that the Chiricahua carry. One is for things close by and is short. The other is a long one, for long-distance shooting. You can get to be very accurate with a sling. You never whirl the sling around a lot, as the stone might come out and hit someone. It just goes back once, and then you let it go. You can hurl a stone a hundred and fifty yards with it. It can be used for hunting birds or deer alike.

Finally, there is the stone knife, chipped with another stone. "They used to chip off the hardest rock they could get and use it for a knife." This knife may have a shoulder jutting from the handle end so that it can be tied to the belt or waist, or it may be carried in a rawhide sheath made by the woman.

A man makes a long rope from a piece of buckskin or rawhide by cutting it in a continuous clockwise circle from the outer rim to the center. To form an especially strong rope, he braids several strands of rawhide together. Such a cord or one braided from horse-tail hair makes a serviceable bridle. By shredding yucca leaves and braiding the tough strands, he makes a durable rope which also can be used for tying and hobbling horses or for a bit and bridle.

"Anyone could build a fire. Whoever woke up first did it. A woman can use the fire drill." Yet the fire drill is made by the man and is employed by him most frequently:

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492 rups, a rope bit which is tied under the horse's mouth, and a bridle with reins attached to the bit and tied together at the end. The quirt, of braided rawhide, is a foot and a half or more long and is fringed at the tip. The handle ends in a loop by [283] which it is suspended from the wrist or held. Yucca-rope hobbles are made; they are tied to the saddle when not in use.

232 If the horse has a sore foot and goes lame, its owner makes a rawhide pouch with a drawstring at the top and ties this over its [174] ailing hoof. Since these "horse moccasins" are always said to be made of cowhide, perhaps their use is recent.

492 The horseman likes to have a mountain lion skin or some other [177] fine fur to throw over the saddle bag "to make it look nice. The Mexican people did this, so the Chiricahua did it too."

The rider mounts from the left side of the horse, putting his left foot in the stirrup and throwing his right leg over the horse's back. If the horse is not in the habit of running away, the rider, when he stops anywhere, throws the reins over its head to the ground.

484 501 [492] *Rafts and boats.*—When rivers or rain-swollen streams have to be crossed "if there are just a couple of men on horseback, they hang on to the manes of the horses, and let them swim with them." But if groups of people must cross bodies of water, the men make rafts:

> When we were coming east and got to the Rio Grande and it was high, the men took logs about twelve feet long or so and tied cross-pieces to them. It makes a raft about three or four feet wide. They had a rope attached to it in front. The best swimmers pulled it along. The rope was around their bodies, or they pulled it with their teeth sometimes. Some good swimmers would be in back to help push. One person would sit on the back to keep the front of it out of the water. Others who couldn't swim or who couldn't swim well would hang on to ropes along the sides. Possessions, sick people, or old people could be brought across water in this way.

One Eastern Chiricahua informant described a bullboat which the men make: "Sometimes when there are no big logs around, they take a rawhide and put sticks crossways inside it. Then they tie the ends up. In this way they make a boat and go across with that."

2: Castetter and Opler N, E-5 (1931-1934)1936
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MESCALERO

MATERIAL CULTURE

It will be understood that a people who lived by hunting and gathering, whose contacts with nature were so close and exacting, and whose food quest demanded much movement, could not develop a very elaborate material culture. The characteristic dwelling of these Apache tribes was a dome-shaped structure covered with grass thatching, hides, or bark. Household utensils included a pitch-covered woven water jar, coiled basket trays, and large burden baskets of twine work. There were dippers and spoons of split gourds, and ladles of split mountain-sheep horn. Metates and manos were found in the surrounding country and brought to camp, or crude ones were fashioned by the Apache themselves. For household purposes the Apache made rock pounders and stone axes hafted to wooden handles. Occasionally an Apache woman made a few clay pots, but because of the breakage of this ware that attended the roving life, it was found to be an unprofitable procedure. On the march these people carried water containers made from the stomachs or intestines of animals.

There was a distaff-type twisting tool which wound together buffalo or horse hair into rope. Ropes of twisted rawhide were also widely used. Long strips of yucca and mescal leaves were used for binding material. Sinew from the loin and leg of the larger game animals was shredded for thread. Women had a special rawhide rope for wood-carrying and some had a special conveyor of wood and rawhide for this purpose.

The lower leg bone of the deer was ground down to make a drill. Later the iron-tipped arrow was used as a boring tool.

In connection with the horse complex, the men made their own whips, saddles, stirrups, cinches, bridles, saddle bags, and even made rawhide bags which were tied over the hoofs to prevent or cure lameness of horses.

For purposes of grooming, combs of mountain mahogany *(Cercocarpus montanus)* and brushes of folded and pounded mescal or sotol leaves were made.